



# The Evolution of Robotics in the Industrial Market

## Collaborative robots

have become the  
answer for companies  
who want to automate  
their processes



# Solving key problems with robotics

Labor recruitment and worker productivity are top concerns for **60%** of warehouse operators.<sup>1</sup>



A clean work environment **increases productivity.**

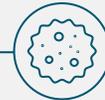


**94%** of workers feel more productive<sup>2</sup>

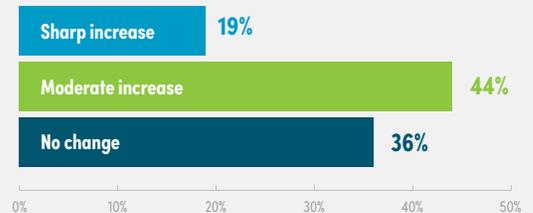


**77%** felt they produce higher quality work<sup>2</sup>

The importance of **robotic automation** has changed due to factors that emerged during the pandemic.<sup>3</sup>



**63%** of facility managers say they have seen a moderate or sharp increase of importance in warehouses and DCs.



# Robots on the rise

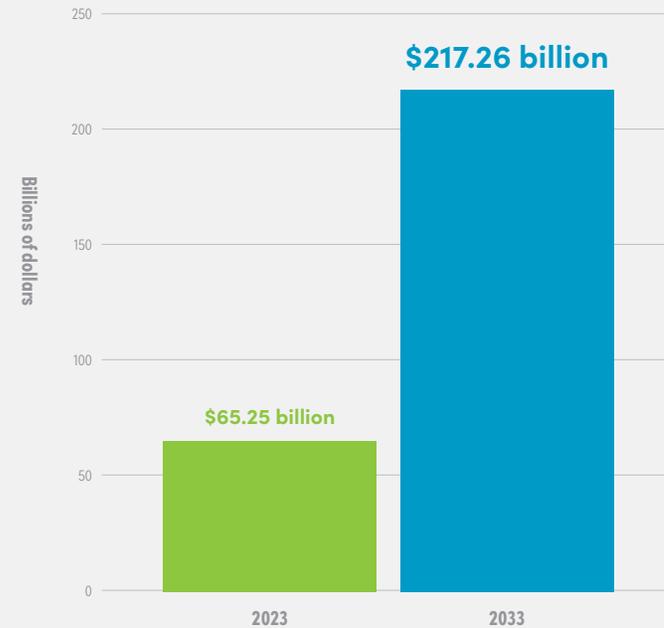
## Increased demand for industrial real estate

E-commerce sales could hit **\$1.5 trillion** by 2025 increasing demand for industrial real estate to an additional **1 billion sq ft.**<sup>4</sup>



## Increase of robots in warehouses

The global logistics automation market was **\$65.25 billion in 2023** and is expected to reach **\$217.26 billion by 2033**, growing **12.8%** between 2024 and 2033.<sup>5</sup>



# Robots on the rise

## The robotics industry is growing



**30%** increase in productivity due to robotics across all industries, including cleaning, in the next 10 years.<sup>6</sup>



Mobile robot shipments in warehouses will have a Compound Annual Growth Rate (CAGR) of almost **40%** from 2021 to 2030 and exceed 500,000 global shipments in 2030.<sup>6</sup>

## Autonomous cleaning robot demand is growing



The market size for cleaning robots has seen a rapid increase in the past few years, expanding from **\$14.11 billion** in 2024 and it is predicted to stretch to **\$17.47 billion** in 2025 a **23.8%** increase.<sup>7</sup>



Total sales of service robots for professional use skyrocketed to **158,000 units** in 2022, a substantial **48%** spike compared to 2021<sup>7</sup>

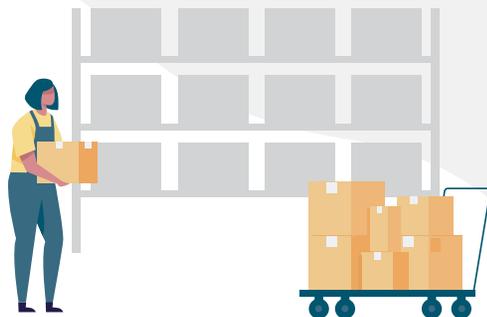


# Building a continuous cycle of robotics value



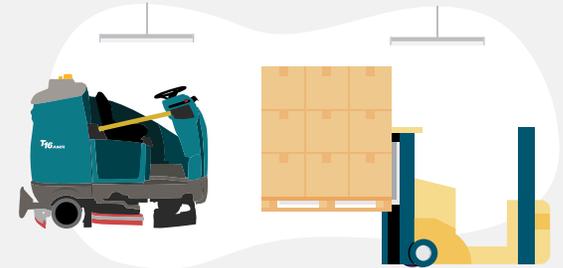
## Effectively managing costs

With rising labor costs and challenges to find skilled staff, automating floor cleaning and inventory data collection can help optimize operational costs and leverage the data for more effective cleaning and inventory management processes.



## Improving operational consistency

Robots are great at consistently repeating tasks and providing data as proof of completion. Using robots to execute routine tasks, like floor scrubbing and shelf scanning, can help provide consistent and positive experiences to customers/employees, which can lead to increased loyalty.



## Improving CX

Meet customer/employee expectations by creating consistently clean spaces, helping customers/employees find the items they want and boosting brand image by demonstrating your commitment to innovation with robotic technologies.



## Data-driven insights

Act on data-driven insights captured by autonomous technologies to improve facility operations – from smarter inventory optimization, to opportunities to drive labor efficiency – and ultimately reinforce efforts to enhance customer experience.



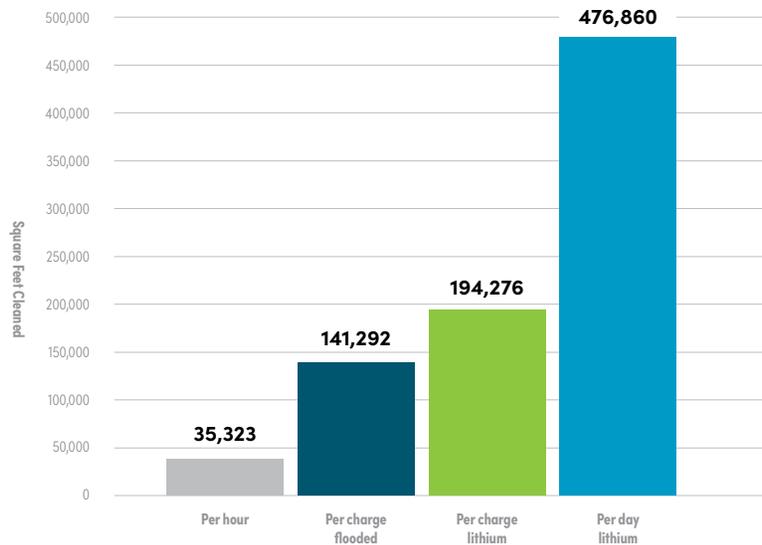
## Re-deploying labor to add more business value

Free up time for staff to focus on other tasks and strategic initiatives that add value to the business and provide staff new skills that increase employee engagement – enhancing labor efficiency and improving employee satisfaction.

# Real-world robotic results

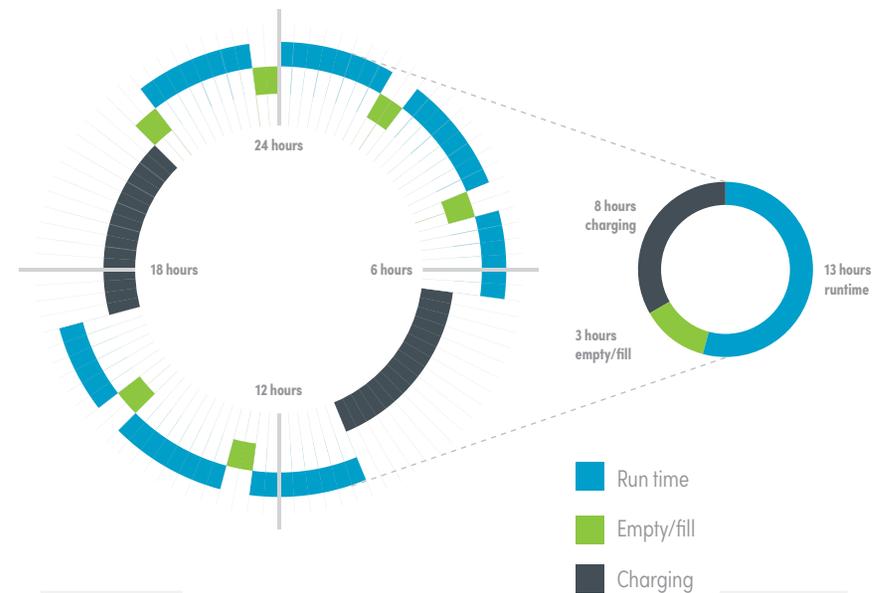
## More cleaning capacity

The T16AMR, at a speed of 2.23 mph, has a daily cleaning capacity of almost **500,000 ft<sup>2</sup>**.



## More cleaning time

The T16AMR with high-capacity lithium ion battery has a run time of up to **13 hours** in a 24-hour period.



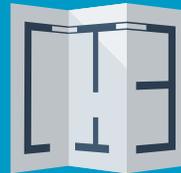
# World leader in autonomous mobile robots



Over  
**8.1 million**  
**hours**  
in autonomous  
mode



**9,000+**  
units deployed



Over  
**117 billion**  
**square feet**  
scrubbed



Shipped to  
**25+**  
**countries**  
**worldwide**



Over  
**897**  
unique  
customers

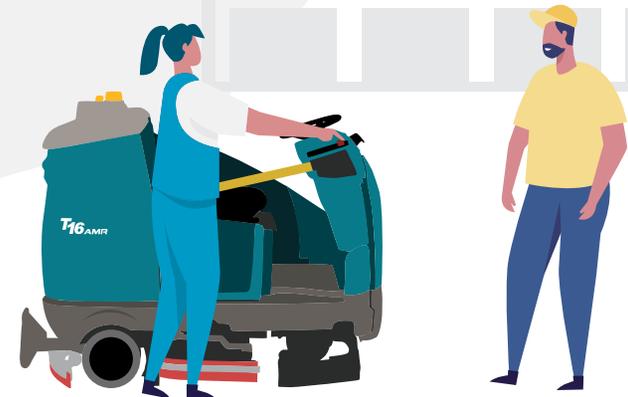
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## Resources

<sup>1</sup>Zebra Technologies. "Warehouse Vision Study 2023." March–April 2023. [https://www.zebra.com/content/dam/zebra\\_new\\_ia/en-us/solutions-verticals/vertical-solutions/warehouse-management/vision-study/2024/warehouse-vision-study-en-us.pdf](https://www.zebra.com/content/dam/zebra_new_ia/en-us/solutions-verticals/vertical-solutions/warehouse-management/vision-study/2024/warehouse-vision-study-en-us.pdf).

<sup>2</sup>Hooley, Stephen. "How a clean office boosts your workforce productivity." *GCCFM*, July 7, 2021. <https://www.gccfm.com/how-a-clean-office-boosts-your-workforce-productivity/>.

<sup>3</sup>Skorupa, Joe. "Robots in Retail: Examining the Autonomous Opportunity." *RetailWire*, April 2021. <https://retailwire.com/wp-content/uploads/2021/04/robotics-in-retail-exec-sum.pdf>

<sup>4</sup>Thompson, Rich. "Industrial real estate demand on the rise in the U.S." *JLL*, Summer 2020. <https://www.us.jll.com/en/views/industrial-real-estate-demand-on-the-rise-in-the-us>.

<sup>5</sup>Yaqub, Mohammad. "27+ Logistics Statistics & Facts (Must Know in 2024)." *Contimod*, October 22, 2024. <https://www.contimod.com/logistics-statistics/#:~:text=The%20global%20logistics%20automation%20market,at%20a%20CAGR%20of%208.29%25>.

<sup>6</sup>ABI Research. "Smart Warehousing." ABI Research, September 9, 2021. <https://www.abiresearch.com/market-research/product/7779756-smart-warehousing?hsLang=en>.

<sup>7</sup>The Business Research Company. "Growth, Trends, and Opportunities in the Cleaning Robot Market: Key Insights for the Next Decade." *The Business Research Company Blog*, January 20, 2025. <https://blog.tbrc.info/2025/01/global-cleaning-robot-market/>.